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In the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (currently amended) A vehicle antenna system, comprising:

a first directional antenna and a second directional antenna, said first- and second-directional ~~antennae~~antennas being located on or within an exterior mirror of a vehicle and having first- and second-directional signal detection fields, respectively;

a switching network that selects one of said first- and second-directional ~~antennae~~antennas to be a selected antenna;

a receiver coupled to said switching network to receive a selected antenna signal from the selected antenna via said switching network; and

a controller coupled to the receiver to output a control signal corresponding to the antenna signal received by the receiver.

2. (currently amended) The vehicle antenna system of claim 1, further comprising:

a detector connected between said receiver and said controller; and

a peak detector connected between said detector and said controller,

wherein said detector detects an amplitude of the selected antenna signal and outputs a detector signal corresponding to the selected antenna signal's amplitude to said peak detector and said controller,

wherein said controller compares the amplitude of the selected antenna signal's amplitude to at least one previous peak amplitude, saves a peak value and outputs a peak detector signal corresponding to the peak value to said controller, and

wherein said controller compares the detector signal for each of said first- and second-directional ~~antennae~~antennas with the peak detector signal to identify which of said ~~antennae~~antennas outputs the strongest antenna signal.

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3. (original) The vehicle antenna system of claim 2, wherein the detector signal is a digital detector signal, and wherein the system further comprises an analog-to-digital converter connected between said peak detector and said controller to convert the peak detector signal into a digital peak detector signal.
4. (original) The vehicle antenna system of claim 2, wherein said peak detector further comprises a reset portion for resetting the peak value.
5. (currently amended) The vehicle antenna system of claim 1, further comprising at least one matching network connected between said first- and second-directional ~~antennae~~antennas and said switching network.
6. (currently amended) The vehicle antenna system of claim 5, wherein each of said first- and second-directional ~~antennae~~antennas has a corresponding matching network.
7. (currently amended) The vehicle antenna system of claim 2, further comprising a plurality of tire pressure sensors, each tire sensor transmitting a sensor output signal detectable by at least one of said first- and second-directional ~~antennae~~antennas.
8. (currently amended) The vehicle antenna system of claim 7, further comprising:
 - a threshold detector that compares the detector signal for each of said first- and second-directional ~~antenna~~antennas with a predetermined threshold; and
 - a low pressure warning indicator coupled to the threshold detector to indicate when the detector signal falls below the predetermined threshold, indicating low tire pressure.
9. (original) The vehicle antenna system of claim 7, wherein each tire pressure sensor has a sensor transmission field, and wherein the sensor transmission field overlaps at least one of said first- and second-directional signal detection fields.

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10. (currently amended) The vehicle antenna system of claim 1, further comprising:

a signal generator that generates a system output signal for reception by a remote circuit external to the vehicle; and

a transmitter for transmitting the system output signal to the remote circuit via said at least one of said first- and second-directional ~~antennae~~antennas over first- and second-directional transmission fields, respectively.

11. (original) The vehicle antenna system of claim 10, wherein the remote receiver is located on a vehicle diagnostic computer, and wherein said signal generator generates vehicle diagnostic data.

12. (original) The vehicle antenna system of claim 10, wherein the remote receiver is located on a garage door opener, and wherein said signal generator generates conventional garage door opener operation data.

13. (original) The vehicle antenna system of claim 10, wherein the remote receiver is located on a traffic control system, and wherein said signal generator generates a presence signal to indicate the presence of the vehicle at a street intersection.

14. (currently amended) The vehicle antenna system of claim 1, wherein at least one of said first- and second-directional ~~antennae~~antennas receives an input signal from a remote location outside of the vehicle.

15. (original) The vehicle antenna system of claim 14, wherein the input signal is transmitted by an emergency vehicle.

16. (currently amended) The vehicle antenna system of claim 15, wherein a remote receiver is located on a traffic control system, and wherein the emergency vehicle transmits the input signal

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to both the remote receiver and at least one of said first- and second-directional
~~antennae~~antennas.

17. (currently amended) The vehicle antenna system of claim 1, further comprising:

a signal generator that generates a system output signal for reception by a remote receiver
external to the vehicle; and

a transmitter for transmitting the system output signal to the remote circuit via said first-
and second-directional transmission fields, wherein at least one of said first- and second-
directional signal detection fields ~~deteet~~detects a signal from the remote circuit.

18. (original) The vehicle antenna system of claim 17, wherein the remote circuit is located in a
vehicle access gate, and wherein the signal generator generates and transmits an access code,
vehicle identification and/or payment information.

19. (currently amended) The vehicle antenna system of claim 17, wherein the first- and second-
directional ~~antennae~~antennas transmit and receive telephone signals to and from the remote
circuit.

20. (currently amended) The vehicle antenna system of claim 17, wherein the remote circuit is
in a global positioning satellite, and wherein the first- and second-directional ~~antennae~~antennas
transmit and receive global positioning information to and from the satellite.

21. (currently amended) A vehicle antenna system, comprising:

a first directional antenna and a second directional antenna, said first- and second-
directional ~~antennae~~antennas being located on or within an exterior mirror of a vehicle and
having first- and second-directional signal transmission fields, respectively;

a signal generator that generates a system output signal for reception by a remote receiver
outside to the vehicle; and

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a transmitter for transmitting the system output signal to the remote circuit via at least one of said first- and second-directional ~~antennae~~antennas.

22. (original) The vehicle antenna system of claim 21, wherein the remote circuit is located in a vehicle access gate, and wherein the signal generator generates an access code and the system output signal is vehicle identification and/or payment information.

23. (currently amended) The vehicle antenna system of claim 21, wherein said first- and second-directional ~~antennae~~antennas transmit telephone signals to the remote circuit.

24. (currently amended) The vehicle antenna system of claim 21, wherein the remote circuit is in a global positioning satellite, and wherein at least one of said first- and second-directional ~~antennae~~antennas ~~receive~~receives global positioning information therefrom.

25. (original) The vehicle antenna system of claim 1, wherein said first directional antenna is a forward-directed antenna and said second directional antenna is a rearward-directed antenna.

26. (currently amended) A vehicle antenna system, comprising:

a first first-directional antenna and a corresponding first ~~first~~second-directional antenna, said first first- and second-directional ~~antennae~~antennas being located on or within a first exterior mirror of a vehicle and having first first- and second-directional signal detection fields, respectively;

a second first-directional antenna and a corresponding second ~~second~~-directional antenna, said second first- and second-directional ~~antennae~~antennas being located on or within a second exterior mirror of a vehicle and having second first- and second-directional signal detection fields, respectively;

a switching network that selects one of said first and second ~~forward and rearward-directed~~first-directional and second-directional ~~antennae~~antennas to be a selected antenna;

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a receiver coupled to said switching network to receive a selected antenna signal from the selected antenna via said switching network; and

a controller coupled to the receiver to output a control signal corresponding to the antenna signal received by the receiver.

27. (currently amended) The vehicle antenna system of claim 26, further comprising:

a detector connected between said receiver and said controller; and

a peak detector connected between said detector and said controller,

wherein said detector detects an amplitude of the selected antenna signal and outputs a detector signal corresponding to the selected antenna signal's amplitude to said peak detector and said controller,

wherein said peak detector saves a peak value and outputs a peak detector signal corresponding to the peak value to said controller, and

wherein said controller compares the peak detector signal for each of said first and second first- and second-directional ~~antennae~~ antennas to identify which of said ~~antennae~~ antennas outputs the strongest antenna signal.

28. (original) The vehicle antenna system of claim 27, wherein the detector signal is a digital detector signal, and wherein the system further comprises an analog-to-digital converter connected between said peak detector and said controller to convert the peak detector signal into a digital peak detector signal.

29. (original) The vehicle antenna system of claim 28, wherein the digital detector is a pulse width modulated signal.

30. (original) The vehicle antenna system of claim 27, wherein said peak detector further comprises a reset portion for resetting the peak value.

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31. (currently amended) The vehicle antenna system of claim 26, further comprising at least one matching network connected between said first and second first- and second-directional ~~antennae~~ antennas and said switching network.

31A. (canceled)

31B. (canceled)

32. (currently amended) The vehicle antenna system of claim 31, wherein each of said first and second first- and second-directional ~~antennae~~ antennas has a corresponding matching network.

33. (currently amended) The vehicle antenna system of claim 27, further comprising a plurality of tire pressure sensors, each tire sensor transmitting a sensor output signal detectable by at least one of said ~~first~~ first and second first- and second-directional ~~antennae~~ antennas.

34. (currently amended) The vehicle antenna system of claim 33, further comprising:
a threshold detector that compares the detector signal for each of said first- and second-directional ~~antenna~~ antennas with a predetermined threshold; and
a low pressure warning indicator coupled to the threshold detector to indicate when the detector signal falls below the predetermined threshold, indicating low tire pressure.

35. (original) The vehicle antenna system of claim 33, wherein each tire pressure sensor has a sensor transmission field, and wherein said sensor transmission field overlaps at least one of said first and second first- and second-directional signal detection fields.

36. (currently amended) The vehicle antenna system of claim 26, further comprising:
a signal generator that generates a system output signal for reception by a remote circuit external to the vehicle; and

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a transmitter for transmitting the system output signal to the remote circuit via at least one of said first and second first- and second-directional ~~antennae~~antennas over first and second first- and second-directional transmission fields, respectively.

37. (original) The vehicle antenna system of claim 36, wherein the remote circuit is located on a vehicle diagnostic computer, and wherein said signal generator generates vehicle diagnostic data.

38. (original) The vehicle antenna system of claim 36, wherein the remote circuit is located on a garage door opener, and wherein said signal generator generates conventional garage door opener operation data.

39. (original) The vehicle antenna system of claim 36, wherein the remote receiver is located on a traffic control system, and wherein said signal generator generates a presence signal to indicate the presence of the vehicle at a street intersection.

40. (currently amended) The vehicle antenna system of claim 26, wherein at least one of said first and second first- and second-directional ~~antennae~~antennas receives an input signal from a remote location outside of the vehicle.

41. (original) The vehicle antenna system of claim 40, wherein the input signal is transmitted by an emergency vehicle.

42. (currently amended) The vehicle antenna system of claim 41, wherein a remote receiver is located on a traffic control system, and wherein the emergency vehicle transmits the input signal to both the remote receiver and at least one of said first and second first- and second-directional ~~antennae~~antennas.

43. (currently amended) The vehicle antenna system of claim 26, further comprising:

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a signal generator that generates a system output signal for reception by a remote circuit external to the vehicle; and

a transmitter for transmitting the system output signal to the remote receiver, and wherein at least one of said first and second first- and second-directional ~~antennae~~antennas receives an input signal from a remote location outside of the vehicle.

44. (original) The vehicle antenna system of claim 43, wherein the remote circuit is located in a vehicle access gate, and wherein the signal generator generates an access code and the input signal is vehicle identification and/or payment information.

45. (currently amended) The vehicle antenna system of claim 43, wherein at least one of first and second first- and second-directional ~~antennae~~antennas ~~transmit~~transmits and ~~receive~~receives telephone signals to and from the remote circuit.

46. (currently amended) The vehicle antenna system of claim 43, wherein the remote circuit is in a global positioning satellite, and wherein at least one of said first and second first- and second-directional ~~antennae~~antennas ~~receive~~receives global positioning information from the satellite.

47. (currently amended) A vehicle antenna system, comprising:

a first first-directional antenna and a corresponding first second-directional antenna, said first first- and second-directional ~~antennae~~antennas being located on or within a first exterior mirror of a vehicle and having first first- and second-directional signal transmission fields, respectively;

a second first-directional antenna and a corresponding second second-directional antenna, said second first- and second-directional ~~antennae~~antennas being located on or within a second exterior mirror of a vehicle and having second first- and second-directional signal transmission fields, respectively;

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a signal generator that generates a system output signal for reception by a remote receiver external to the vehicle; and

a transmitter for transmitting the system output signal to the remote receiver via at least one of said first and second first-directional and second-directional ~~antennae~~antennas.

48. (original) The vehicle antenna system of claim 47, wherein the remote receiver is located in a vehicle access gate, and wherein the signal generator generates an access code and the input signal is vehicle identification and/or payment information.

49. (currently amended) The vehicle antenna system of claim 47, wherein the first- and second-directional ~~antennae~~antennas transmit telephone signals to the remote circuit.

50. (currently amended) The vehicle antenna system of claim 47, wherein the remote circuit is in a global positioning satellite, and wherein the first- and second-directional ~~antennae~~antennas receive global positioning information from the satellite.

51. (currently amended) The vehicle antenna system of claim 47, wherein said first and second first-directional ~~antennae~~antennas are forward-directed ~~antennae~~antennas and said first and second second-directional ~~antennae~~antennas are rearward-directed ~~antennae~~antennas.

52. (currently amended) A vehicle antenna system, comprising:

a first first-directional antenna and a corresponding first second-directional antenna, said first first- and second-directional ~~antennae~~antennas being located on or within a first exterior mirror of a vehicle and having first first- and second-directional signal detection fields, respectively;

a second first-directional antenna and a corresponding second second-directional antenna, said second first- and second-directional ~~antennae~~antennas being located on or within a second exterior mirror of a vehicle and having second first- and second-directional signal detection fields, respectively;

at least one matching network corresponding to at least one of said first and second first- and second-directional ~~antennae~~-antennas and said receiver;

a switching network coupled to said at least one matching network, wherein said switching network selects one of said first and second first- and second-directional ~~antennae~~-antennas to be a selected antenna;

a detector connected between said receiver and said controller;

a peak detector connected between said detector and said controller;

a receiver coupled to said switching network to receive a selected antenna signal from the selected antenna via said switching network; and

a controller coupled to the receiver to output a control signal corresponding to the antenna signal received by the receiver,

wherein said detector detects an amplitude of the selected antenna signal and outputs a detector signal corresponding to the selected antenna signal's amplitude to said peak detector and said controller,

wherein said peak detector compares the amplitude of the selected antenna signal's amplitude to at least one previous peak amplitude of a previous selected antenna signal, saves a peak value and outputs a peak detector signal corresponding to the peak value to said controller, and

wherein said controller compares the detector signal for each of said first and second first- and second-directional ~~antennae~~-antennas with the peak detector signal to identify which of said ~~antennae~~-antennas outputs the strongest antenna signal.

53. (original) The vehicle antenna system of claim 52, wherein the detector signal is a digital detector signal, and wherein the system further comprises an analog-to-digital converter connected between said peak detector and said controller to convert the peak detector signal into a digital peak detector signal.

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54. (original) The vehicle antenna system of claim 52, wherein said peak detector further comprises a reset portion for resetting the peak value to a predetermined value after the strongest antenna signal has been identified.

55. (currently amended) The vehicle antenna system of claim 52, further comprising a plurality of tire pressure sensors, each tire sensor transmitting a sensor output signal detectable by at least one of said first and second first- and second-directional ~~antennae~~antennas.

56. (original) The vehicle antenna system of claim 55, further comprising:

a threshold detector that compares the detector signal for each of said forward and rearward-directed antenna with a predetermined threshold; and

a pressure warning indicator coupled to the threshold detector to indicate when the detector signal passes the predetermined threshold, indicating an unsafe tire pressure.

57. (original) The vehicle antenna system of claim 55, wherein each tire pressure sensor has first- and second-directional transmission fields, and wherein at least one of said first- and second-directional transmission fields overlaps one of said first and second first- and second-directional signal detection fields.

58. (original) The vehicle antenna system of claim 52, further comprising:

a signal generator that generates a system output signal for reception by a remote receiver external to the vehicle; and

a transmitter for transmitting the system output signal to the remote receiver.

59. (original) The vehicle antenna system of claim 57, wherein the remote receiver is located on a vehicle diagnostic computer, and wherein said signal generator generates vehicle diagnostic data.

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60. (original) The vehicle antenna system of claim 57, wherein the remote receiver is located on a garage door opener, and wherein said signal generator generates conventional garage door opener operation data.

61. (original) The vehicle antenna system of claim 57, wherein the remote receiver is located on a traffic control system, and wherein said signal generator generates a presence signal to indicate the presence of the vehicle at a street intersection.

62. (currently amended) The vehicle antenna system of claim ~~51~~52, wherein at least one of said first and second first- and second-directional ~~antennae~~antennas receives an input signal from a remote location outside of the vehicle.

63. (original) The vehicle antenna system of claim 62, wherein the input signal is transmitted by an emergency vehicle.

64. (currently amended) The vehicle antenna system of claim 62, wherein a remote receiver is located on a traffic control system, and wherein the emergency vehicle transmits the input signal to both the remote receiver and at least one of said first and second first- and second-directional ~~antennae~~antennas.

65. (currently amended) The vehicle antenna system of claim ~~51~~52, further comprising:
a signal generator that generates a system output signal for reception by a remote receiver external to the vehicle; and
a transmitter for transmitting the system output signal to the remote receiver via said first- and second-directional ~~antennae~~antennas over first- and second-directional fields, wherein at least one of said first- and second-directional signal detection fields ~~detect~~detects a signal from the remote circuit.

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66. (original) The vehicle antenna system of claim 64, wherein the remote circuit is located in a vehicle access gate, and wherein the signal generator generates and transmits an access code, vehicle identification and/or payment information.

67. (currently amended) The vehicle antenna system of claim 64, wherein at least one of the first and second first- and second-directional ~~antennae~~ antennas transmits and receives telephone signals to and from the remote circuit.

68. (currently amended) The vehicle antenna system of claim 64, wherein the remote location is a global positioning satellite, and wherein the first and second first- and second-directional ~~antennae~~ antennas receive global positioning information from the satellite.

69. (currently amended) A vehicle antenna system, comprising:

a first first-directional antenna and a corresponding first ~~first~~ second-directional antenna, said first first- and second-directional ~~antennae~~ antennas being located on or within a first exterior mirror of a vehicle and having first first- and second-directional signal transmission fields, respectively;

a second first-directional antenna and a corresponding second ~~second~~ second-directional antenna, said second first- and second-directional ~~antennae~~ antennas being located on or within a second exterior mirror of a vehicle and having second first- and second-directional signal transmission fields, respectively;

a signal generator that generates a system output signal for reception by a remote circuit external to the vehicle; and

a transmitter for transmitting the system output signal to the remote circuit via at least one of said first and second first-directional and second-directional ~~antennae~~ antennas.

70. (original) The vehicle antenna system of claim 69, wherein the remote circuit is located in a vehicle access gate, and wherein the signal generator generates an access code and the input signal is vehicle identification and/or payment information.

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71. (currently amended) The vehicle antenna system of claim 69, wherein the first- and second-directional ~~antennae~~antennas transmit telephone signals to the remote circuit.

72. (currently amended) The vehicle antenna system of claim 69, wherein the remote circuit is in a global positioning satellite, and wherein the first- and second-directional ~~antennae~~antennas receive global positioning information from the satellite.

73. (currently amended) The vehicle antenna system of claim 69, wherein said first and second first-directional ~~antennae~~antennas are forward-directed ~~antennae~~antennas and said first and second second-directional ~~antennae~~antennas are rearward-directed ~~antennae~~antennas.

74. (new) The vehicle antenna system of claim 26, further comprising at least one matching network connected between said switching network and said receiver.

75. (new) The vehicle antenna system of claim 74, further comprising at least one matching network connected between said first and second first- and second-directional antennas and said switching network.